Technical Data Sheet

LOXEAL 58-14

Description

Anaerobic curing adhesive for the gasketing and sealing of flanges.
It replaces solid gaskets and gives flexible cured films.
To seal against gases, water, LPG, hydrocarbons, oils and other chemicals.
Thixotropic property prevents migration of the sealant before or during curing.
Shocks and vibrations resistant; unaffected sealing properties in the temperature range from -50 to +150°C.

Physical properties

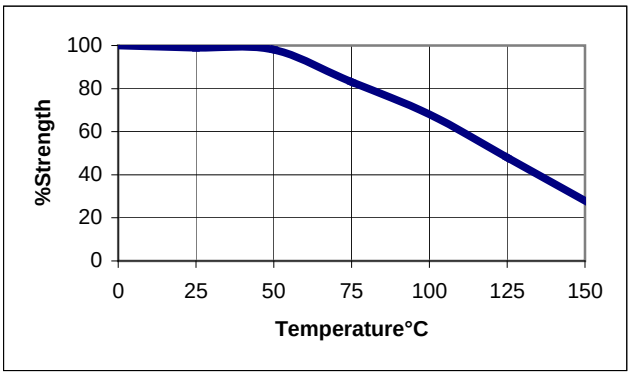
* Composition: anaerobic methacrylate
* Colour:: orange
* Fluorescence:: under blue light
* Viscosity (25°C - mPa.s): 28.000 – 100.000 high thixptropic
* Specific weight (25°C - g/ml): 1,1
* gap filling: 0,50 mm
* Flash point: > 100°C
* Shelf life 25°C: 1 years

Curing performance

Curing rate depends on the assembly clearance, material surfaces and temperature. Functional strength is usually reached in 1 – 3 hours and full curing takes 24 – 36 hours. In case of passive surfaces and/or low temperature a fast cure can be obtained using Loxeal activator 11.

Environmental resistance

The graph below shows the mechanical strength vs. temperature.
Steel specimen – ASTM 1002/DIN 53283



Curing properties

Bolt M 10 x 20 - quality 8.8 - Nut h = 0,8.d at 25°C:
* Handling cure time: 15 - 30 minutes
* Functional cure time: 3 6 hours
* Full cure time: 24 hours
* Shear strength(ASTM D-1002)): 5 - 10 N/mm²
* Tensile strength (ASTM D-2095): 5 - 8 N/mm²
* Impact strength (ASTM D-950): 5 - 10 N.mm/mm²
* Temperature range: -55 +150°C

Chemical resistance

Aged under conditions below after 24 hours from polymerisation at indicated temperature.

Substance	°C	Resistance after 100 h	Resistance after 500 h	Resisance after 1000 h
Motor oil	125	excellent	excellent	excellent
Gear box oil	125	excellent	excellent	Excellent
Gasoline	25	Good	Good	Good
Water/glycol 50%	87	Good	Good	Good

* For information on resistance with other chemicals, contact Loxeal Technical Service

Directions for use

The product is recommended for use on metal surfaces.
Clean and degrease parts before bonding with Loxeal Cleaner 10.
Apply product to fill completely the gap, assemble parts and hold on for curing time. Liquid product can damage coating, some plastics and elastomers and late stress-cracking events might be induced if used with some thermoplastics.
For application on non metal materials, contact Loxeal Technical Service. For disassembly, use normal tools and eventually heat pieces at 150/250°C, remove any residue of cured product mechanically and clean parts with Acetone.

LOXEAL Srl – Via Marconato 2 – I 20031 CESANO MADERNO (MI) – Italy - Tel +39 0362 551701 – Fax +39 0362 524225 – www.loxeal.com

Storage

Keep product in a cool and dry room at no more than +25°C. To avoid contaminations do not refill containers with used product. For further information on applications, storage and handling contact Loxeal Technical Service

Safety and handling

Consult Material Safety Data Sheet

Note

The data contained herein, obtained in Loxeal laboratories, are given for information only. Loxeal cannot assume responsibility for the results obtained by others which methods are not under Loxeal control. It is the user's responsibility to determine suitability for the user's purpose of any product mentioned herein. Loxeal disclaims all warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose, arising from sale or use of Loxeal products. Loxeal specifically disclaims any liability for consequential or incidental damages of any kind, including lost profits**.**

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